

REMARKS

In view of the above amendments and the following remarks, reconsideration of the rejection and further examination are respectfully requested.

The specification and abstract have been reviewed and revised to improve their English grammar and U.S. form. The amendments to the specification and abstract have been incorporated into a substitute specification and abstract. Attached are two versions of the substitute specification, a marked-up version showing the revisions, as well as a clean version. No new matter has been added.

Claims 2, 8 and 9 have been cancelled without prejudice or disclaimer to the subject matter contained therein, claims 1, 3-7 and 10-15 have been amended, and claim 16 has been added.

Claims 1-13 and 15 were rejected under 35 USC 103(a) as being unpatentable over Tsuk et al. (U.S. 2003/0076301 A1) in view of Buckley et al. (U.S. 2003/0135649 A1). Further, claim 14 was rejected under 35 USC 103(a) as being unpatentable over Tsuk in view of Buckley, and further in view of Paloniemi (U.S. 2001/0017934 A1). The rejection regarding claims 2, 8 and 9 is considered moot based on their above-mentioned cancellation. Further, this rejection is believed clearly inapplicable to amended claims 1, 3-7 and 10-15, as well as new claim 16 for the following reasons.

Amended Claim 1

Amended independent claim 1 recites a portable electronic device including, in part, (1) a first manipulator means for supplying a signal for performing a first screen process on information displayed on a display; and (2) a second manipulator means for supplying a circumferential movement signal for performing a second screen process on the information displayed on the display, the second manipulator means including a ring-shaped manipulator having an inner circumference side and an outer circumference side, the second manipulator means for supplying the circumferential movement signal according to the ring-shaped manipulator means wherein (a) the first manipulator means is arranged at either the inner circumference side or the outer circumference side of the ring-shaped manipulator, (b) responsive to the signal supplied from the first manipulator means the first screen process is performed by scrolling the information displayed on the display, and (c) responsive to the

circumferential movement signal supplied from the second manipulator means the second screen process is performed, being one of a process of scaling up the information, scaling down the information, and switching a screen of information displayed on the display with the selected display position as a reference. Tsuk, Buckley, and Paloniemi, or any combination thereof fail to disclose or suggest the functions of the first manipulator means and the second manipulator means as recited in claim 1 of the present application.

In contrast to the present invention as recited in amended claim 1, Tsuk teaches a method and apparatus for accelerated scrolling. Specifically, Tsuk teaches a rotational input device 710, 910 (see Figs. 7b, and 9). Further, a selection 923 scrolls in an upward or downward direction 924 and is displayed on a screen 904 according to a user input 934 on the rotational input device 710, 910 (see Figs. 7b, and 9; and paragraph [0068]). As defined by Tsuk, the term “scroll” pertains to moving displayed data across a viewing area on a display screen, so as to enable a user to view sets of data currently outside the viewing area (see paragraph [0068]).

Based on the discussion above and the Examiner’s comment on page 3 of the Office Action, Tsuk merely teaches the scrolling of information according to an input on a rotational input device. However, Tsuk does not teach or suggest, (1) scaling up the information, scaling down the information, and switching a screen of information according to the circumferential movement signal supplied according to a ring-shaped manipulator (i.e. rotational input device) from a manipulator means, or (2) scrolling the information displayed on a display according to a manipulator means arranged at either the inner circumference side or the outer circumference side of the ring-shaped manipulator.

Nonetheless, the Examiner asserted that the Buckley reference teaches elements of the original independent claims that were not explicitly taught by the Tsuk reference. In particular, Buckley teaches a method for document viewing which involves (1) a client side device requesting a document or portion of a document from a server and the server receiving the request; (2) the server retrieving the requested document portion converting the portion to a wavelet compressed image, and sending the wavelet compressed image to the client; and (3) the client subsequently requesting more data from which the server responds (see paragraph [0007]). Specifically, Buckley teaches that the server delivers to the client additional bits so that the image bits of the initially received document can be displayed in more detail in the areas of the page that are determined to be more interesting or significant (see paragraph [0021], lines 8-12).

Accordingly, Buckley teaches that the user has the ability to identify a region in the received document and request that the server sends new data so that the user can zoom in on a portion of the document (see paragraph [0020], lines 5-8, and lines 14-17). This zooming taught by Buckley occurs only by the server sending additional data to the client based on a user selection (see paragraph [0020], lines 14-17).

However, Buckley does not disclose or suggest, as discussed above, (1) scaling up the information, scaling down the information, and switching a screen of information according to the circumferential movement signal supplied according to a ring-shaped manipulator from a manipulator means, or (2) scrolling the information displayed on a display according to a manipulator means arranged at either the inner circumference side or the outer circumference side of the ring-shaped manipulator. More specifically, Buckley does not teach the distinguishable arrangement of a ring-shaped manipulator for scaling up the information and scaling down the information displayed on a display, and a manipulator for scrolling arranged at the inner or outer circumference side of the ring-shaped manipulator. Moreover, Buckley teaches zooming based on the request and receipt of *new data* from a server, whereas claim 1 recites scaling up and scaling down *the information* (presently displayed on the display).

Accordingly, the combination of Tsuk in view of Buckley fails to teach or suggest the features of scaling up the information, scaling down the information, and switching according to a circumferential movement signal supplied according to a ring-shaped manipulator, and the scrolling of a screen displaying information according to a signal supplied from a manipulator means which is arranged at either the inner circumference side or the outer circumference side of the ring-shaped manipulator. The combination of Tsuk and Buckley merely teaches scrolling based on a user input on a rotational input device and zooming in on displayed information based on new information received from a server, but does not teach or suggest the features of claim 1 discussed above. Thus, it is apparent that amended claim 1 is patentable over Tsuk in view of Buckley.

In addition, it is respectfully submitted that Paloniemi in combination with the features of Tsuk and Buckley does not teach or suggest (1) scaling up the information, scaling down the information, and switching a screen of information according to the circumferential movement signal supplied according to a ring-shaped manipulator, or (2) scrolling the information displayed on a display according to a manipulator means arranged at either the inner circumference side or

the outer circumference side of the ring-shaped manipulator.

Because of the above-mentioned distinctions, it is clear that the features of amended claim 1 are not taught or suggested by Tsuk, Buckley or Paloniemi, or any combination thereof, and as a result claim 1 is patentable over the references relied on in the rejection. Furthermore, it is submitted that the distinctions are such that a person having ordinary skill in the art at the time of the invention would not have been motivated to modify the references in such a manner as to result in, or otherwise render obvious the present invention as recited in amended claim 1. Therefore, it is submitted that amended claim 1 and the claims that depend therefrom are clearly allowable over the prior art of record.

Amended Claim 6

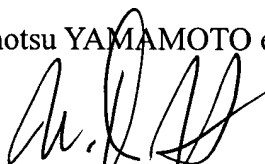
Amended independent claim 6 recites a portable electronic device including, in part, a first manipulator for supplying a signal for performing a first screen process which performs scrolling of information displaying on a display, and a second manipulator for supplying a circumferential movement signal for performing a second screen process which performs scaling up the information, scaling down the information, and switching a screen of information displayed on the display according to a directional rotation of a circular rubber manipulator.

As noted above with respect to claim 1, neither Tsuk, Buckley, or Paloniemi, or any combination thereof, teaches or suggests (1) scaling up the information, scaling down the information, and switching a screen of information according to the circumferential movement signal supplied according to a directional rotation of a circular rubber manipulator (i.e., ring-shaped manipulator), or (2) scrolling the information displayed on a display according to a manipulator means arranged at either the inner circumference side or the outer circumference side of the ring-shaped manipulator. Thus, a person having ordinary skill in the art at the time of invention would not have been motivated to modify the references in such a manner as to result in, or otherwise render obvious the present invention as recited in amended claim 6. Therefore, it is submitted that amended claim 6 and the claims that depend therefrom are clearly allowable over the prior art of record.

In view of the above amendments and remarks, it is submitted that the present application is now in condition for allowance and an early notification thereof is earnestly requested. The Examiner is invited to contact the undersigned by telephone to resolve any remaining issues.

Respectfully submitted,

Tamotsu YAMAMOTO et al.

By: 

W. Douglas Hahm
Registration No. 44,142
Attorney for Applicants

ALD(WDH)/mjw
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
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